

IN THE ABSTRACT

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## ABSTRACT

A flexible self-expandable stent has inside and outside stent bodies each fabricated by knitting first and second super-elastic shape memory alloy wires into a net-like structure with the first wire zigzagged with a diagonal length  $P$  interlocked with the second wire zigzagged with a diagonal length  $2P$  at a plurality of interlocked points with intersecting points therebetween to allow the stent bodies to apply force against longitudinal contraction of the stent bodies. The interlocked points and the intersecting points form a plurality of diamond-shaped meshes in the net-like structure of each stent body. A hollow rubber tube is closely fitted between the inside and outside stent bodies, with each of the overlapped ends of the rubber tube and the stent bodies being integrating into a single structure.